

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

MB5005 THRU MB5010

Features

- Case to Terminal Isolation Voltage 2500V (RMS)
- High Conductivity Metal Case
- Any Mounting Position
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

- Surge Rating Of 400 Amps
- Mounting Hole For #8 Screw
- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MB5005	MB5005	50V	35V	50V
MB501	MB501	100V	70V	100V
MB502	MB502	200V	140V	200V
MB504	MB504	400V	280V	400V
MB506	MB506	600V	420V	600V
MB508	MB508	800V	560V	800V
MB5010	MB5010	1000v	700V	1000v

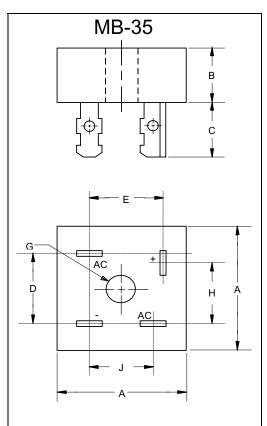
Electrical Characteristics @ 25°C Unless Otherwise Specified

.iGGU 1GA1 QHA1 AGUG1 13UG3 😉 20 Q QHIG33 QUHG1 WI3G 3PGGHIGU						
Average Forward Current	$I_{F(AV)}$	50.0A	$T_C = 55^{\circ}C$			
Peak Forward Surge Current	I _{FSM}	400A	8.3ms, half sine			
Maximum Forward Voltage Drop Per Element*	V_{F}	1.2V	I _{FM} = 25A per element; T _J = 25°C			
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10μA 1mA	T _J = 25°C T _J = 125°C			
Typical Thermal Resistance Junction to Case (Note 1)	$R_{ heta}JC$	1.5K/W	Per element			

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

2. Thermal resistance junction to case mounted on heatsink.

50 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

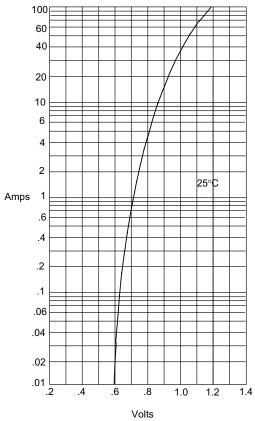


DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MA	MIN	MA	NOTE	
Α	1.115	1.135	28.33	28.83		
В	.427	.447	10.85	11.35		
С	.428	.468	10.87	11.89		
D	.688	.730	17.48	18.50		
E	.618	.658	15.70	16.71		
G	.193		4.90		Ø	
Н	.618	.658	15.70	16.71		
J	.530	.570	13.46	14.48		

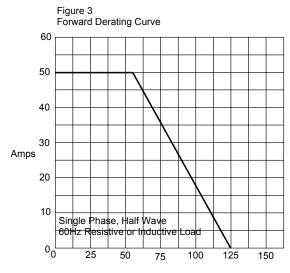


MB5005 thru MB5010

Typical Forward Characteristics

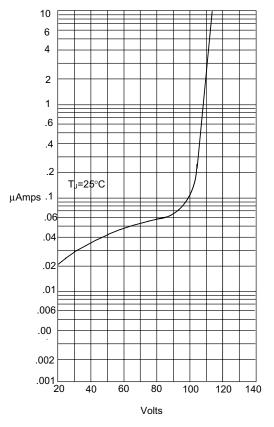


Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

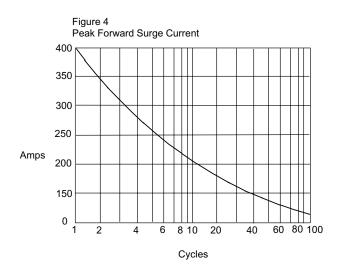


Mounted on a 220x220x50mm ALplateheatsink Average Forward Rectified Current - Amperes versus Case Temperature - °C

Figure 2 **Micro Commercial Components** Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperesersus Percent Of Rated Peak Reverse Voltage - Volts



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles



Ordering Information

Device	Packing
(Part Number)-BP	Bulk;50pcs/Box

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